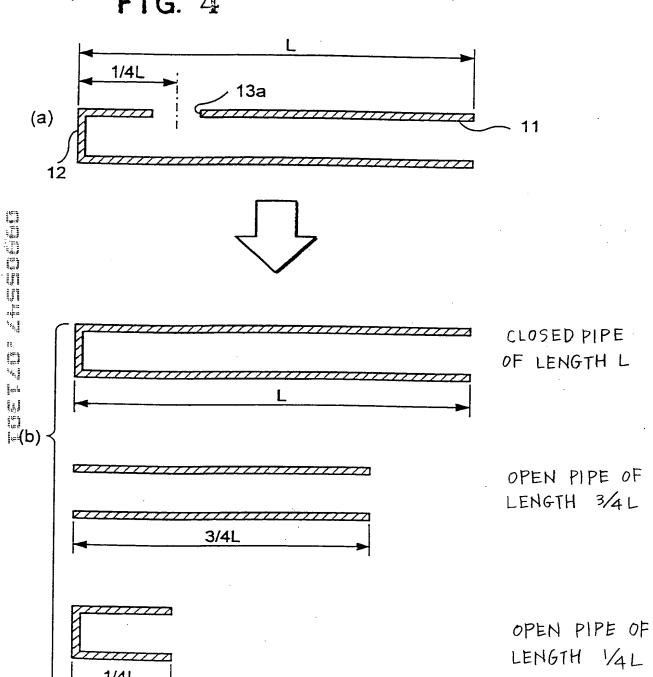
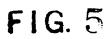
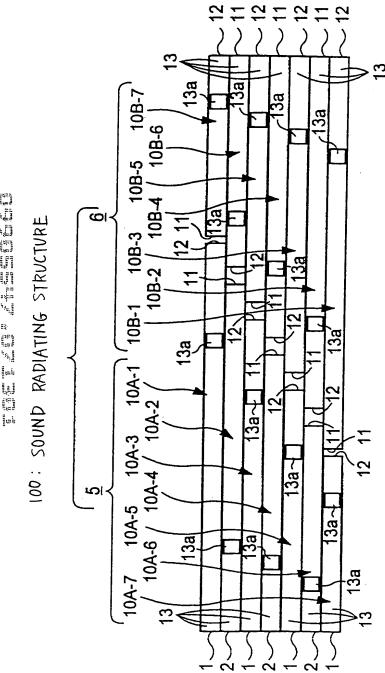


FIG. 4







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FIG. 6

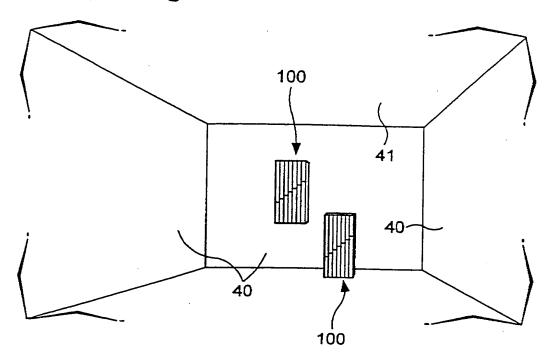


FIG. 7

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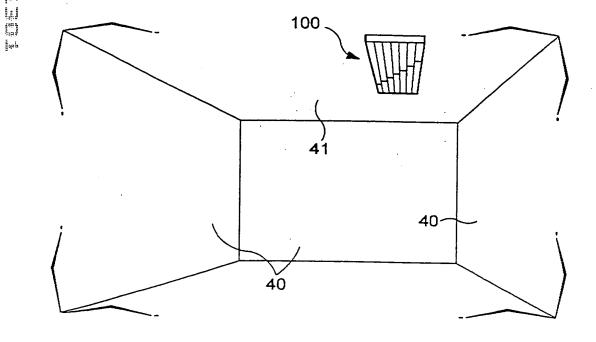
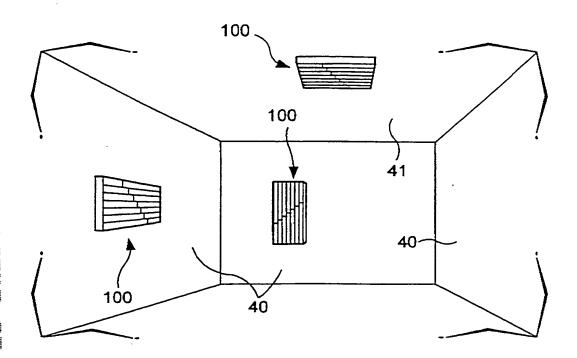


FIG. 8



And the state of t

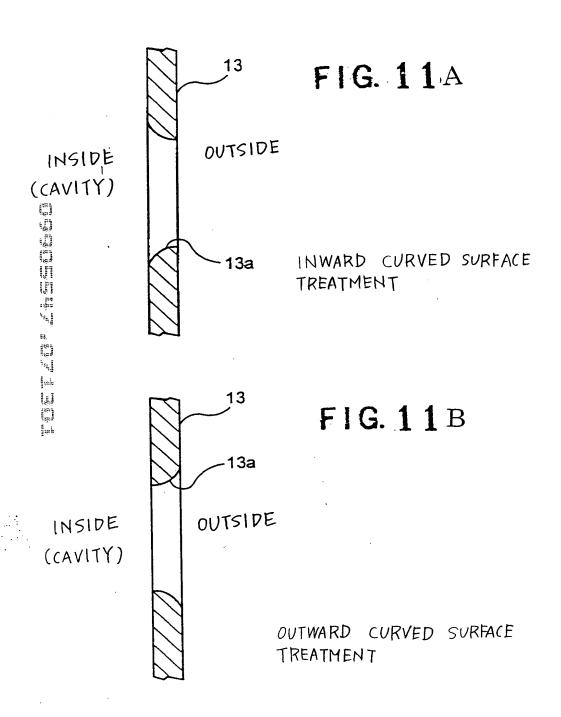
PIPE NO.	A1	B1	A2	B2	A3	B3	A4	84	A5	85	A6	98	A7	28
LENGTH L(mm)	895	850	800	760	720	680	640	605	565	530	500	470	445	425
f(Hz)	95	100	106	112	112 118	125	133	140	150	160	160 170	181	191	200
f-S(Hz)	380	400	425	447	472	200	531	562	602	642	680	723	764	800
f-L(Hz)	253	267	283	298	315	333	354			428 453		482	509	533

5 5

FIG. 10 A

PIPE NO.	A1	B1	A2	B2	A3	B3	<b>A4</b>	B4 A5	A5	B5	A6	B6	A7	B7
f-L'(Hz)	127	133	133 142	149 157	157	167 177 187 201	177	187	201	214 227 241 255	227	241	255	267
MEASURED (HZ)	120	120 135 140 145 150	140	145	150	180 190 180 185	190	180	185	210 225 225	225	225	230	235
MEASURED (2(HZ)	350	350	360	395	390	390 410 445 490 515	445	490	515	500 510 570	510	570	0 550 6	610
MEASURED VALVE (3(HZ)	850	1000	1100	1200	1000	850 1000 1100 1200 1000 1100 1350 1250 1600 1000 1400 1500 1200 1800	1350	1250	1600	1000	1400	1500	1200	1800

FIG. 10B



#### SOUND PRESSURE

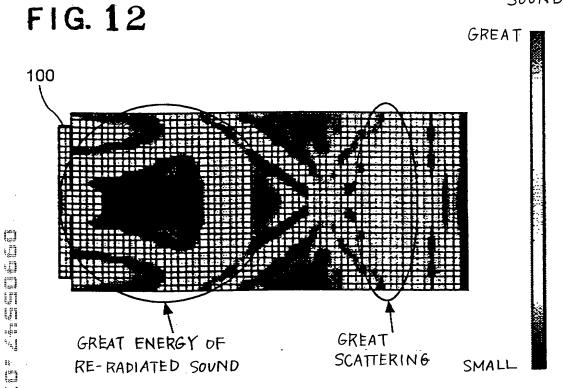
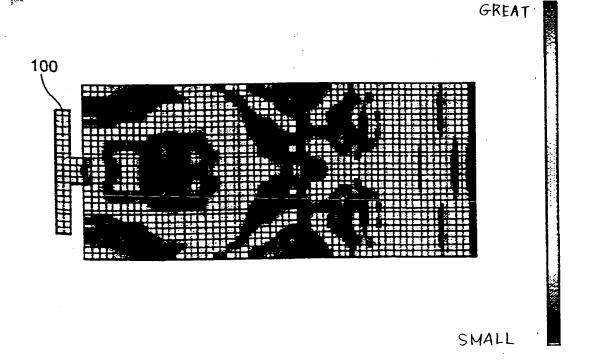
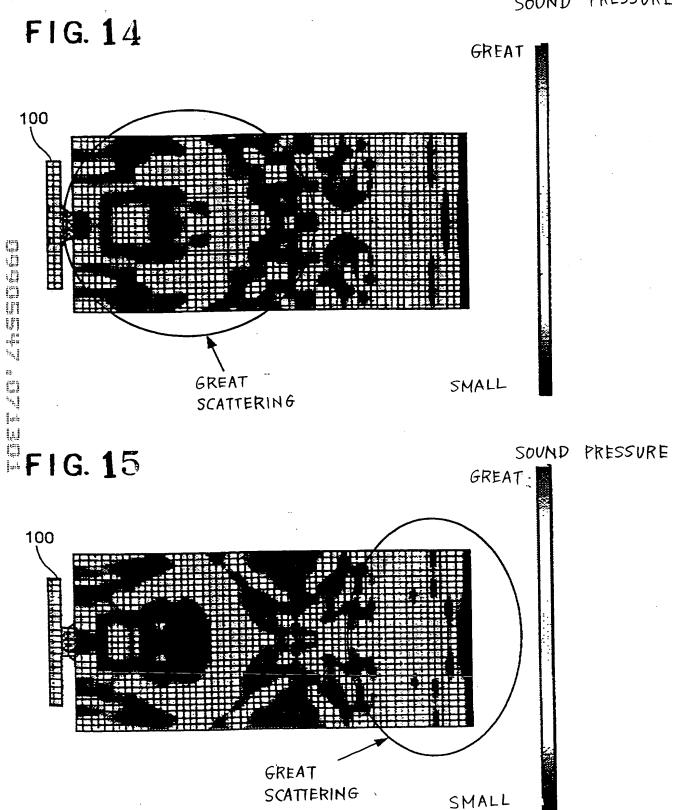


FIG. 13

SOUND PRESSURE



#### SOUND PRESSURE



SOUND PRESSURE

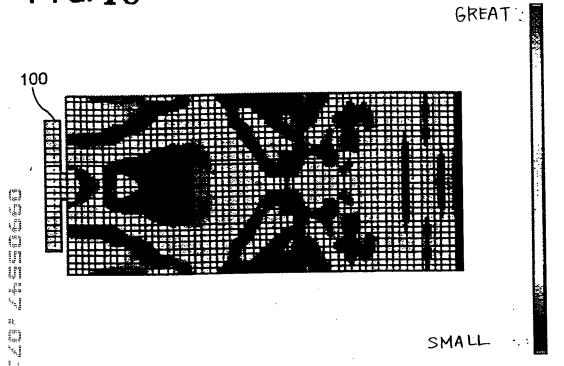
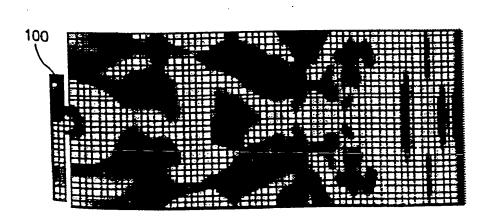


FIG. 17

SOUND PRESSURE



SMALL

GREAT

SOUND PRESSURE

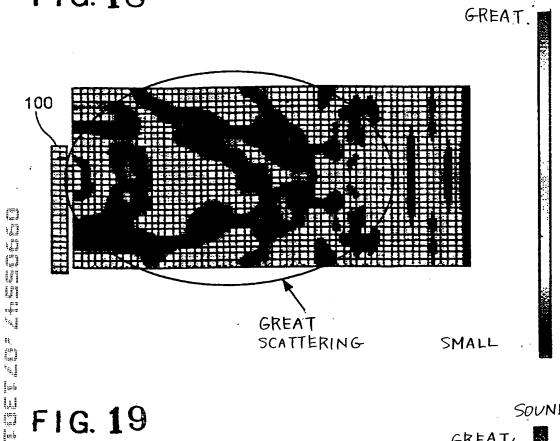
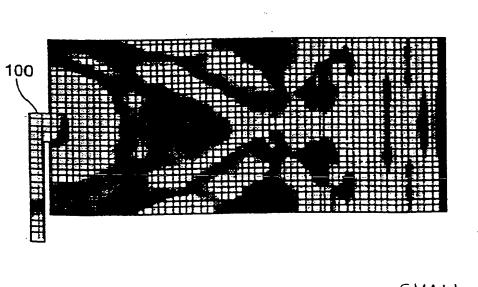


FIG. 19

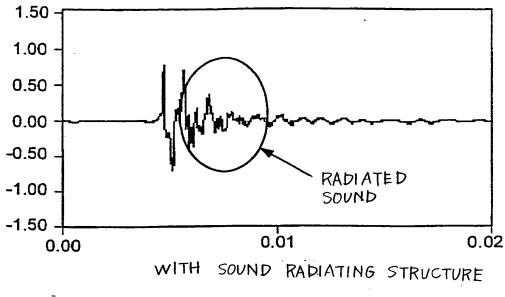
SOUND PRESSURE

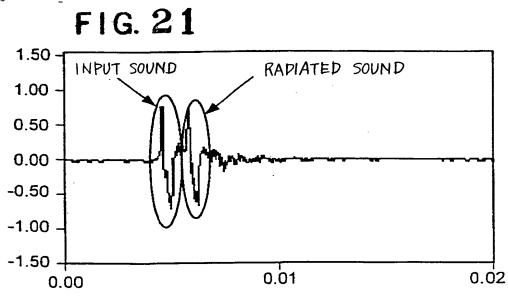


SMALL

GREAT

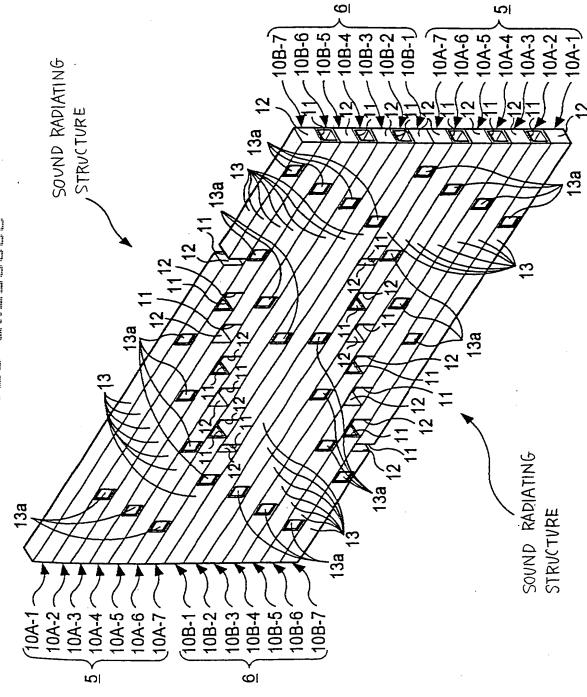
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WITHOUT SOUND RADIATING STRUCTURE

FIG. 22



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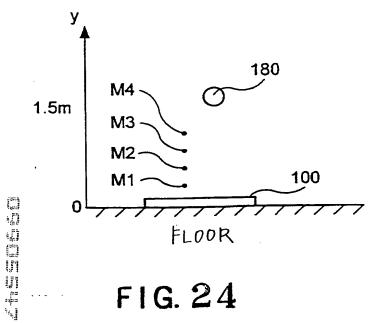


FIG. 24

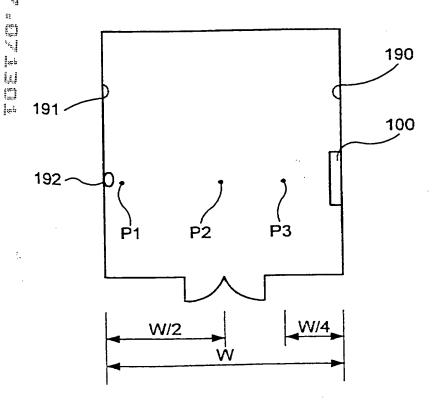
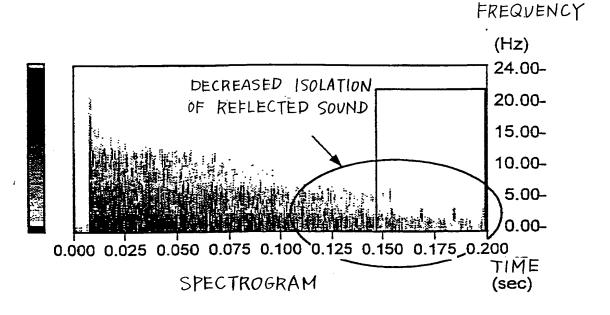
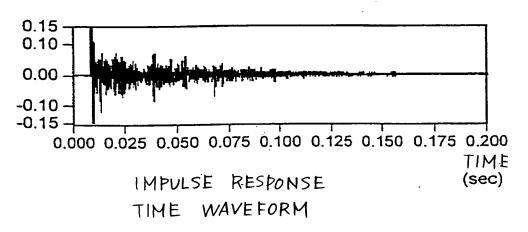




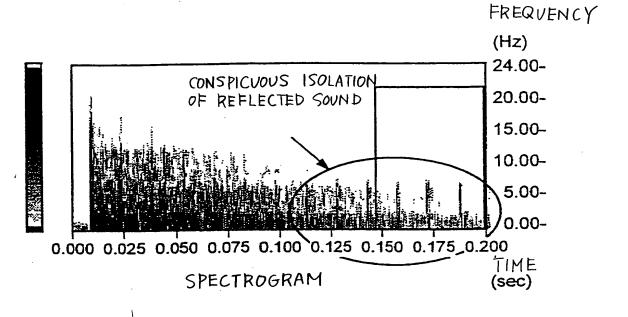
FIG. 25

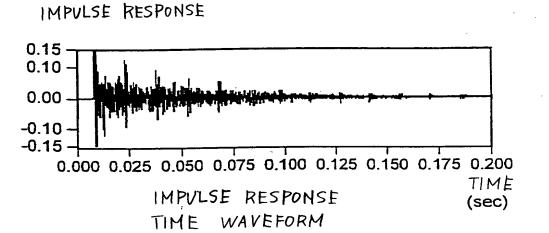


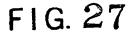


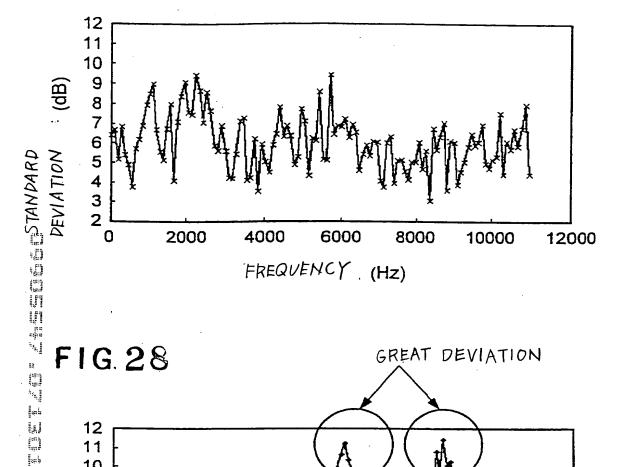


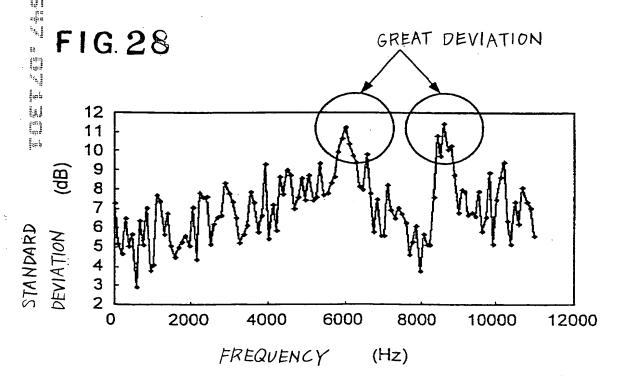














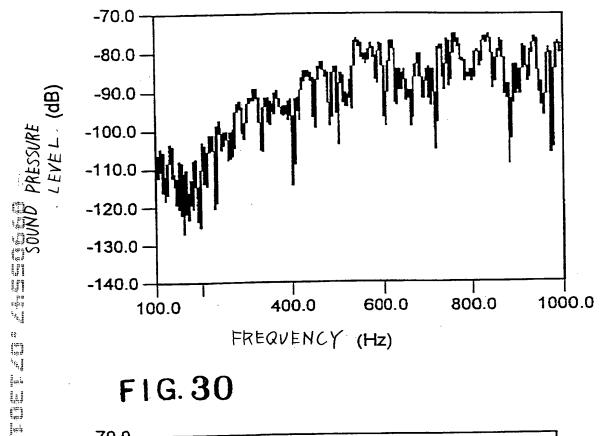


FIG. 30

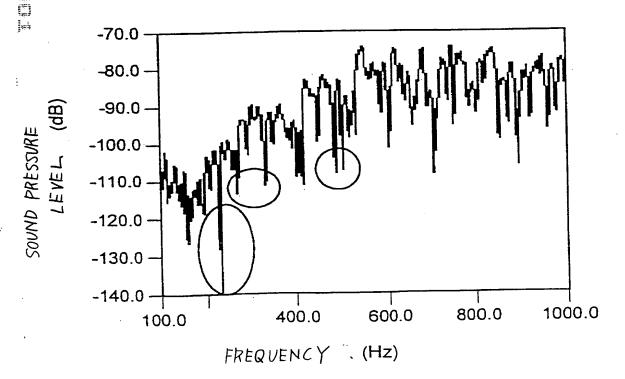
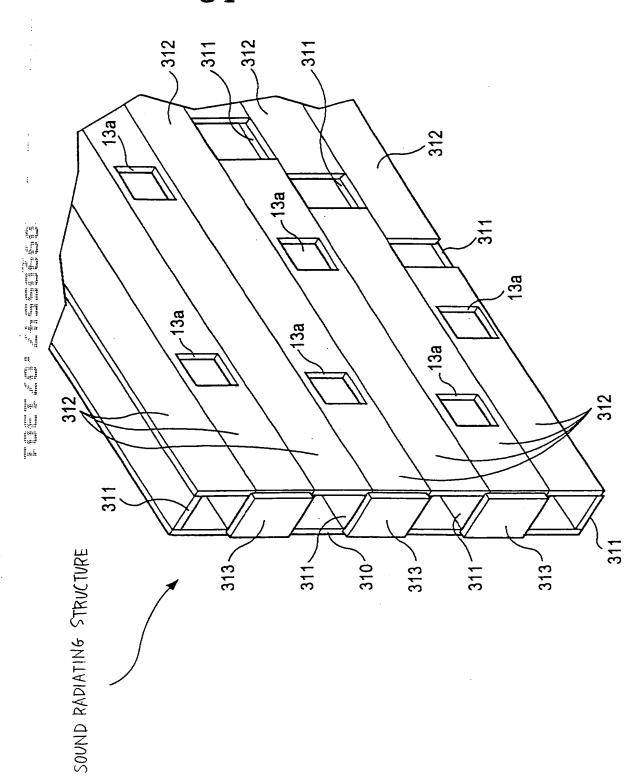




FIG. 31



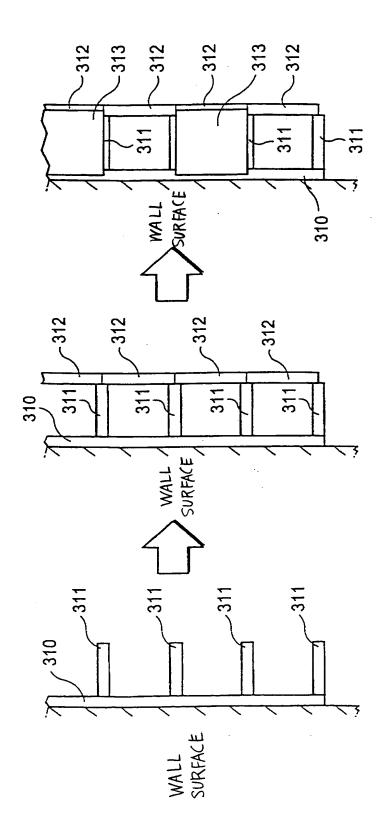
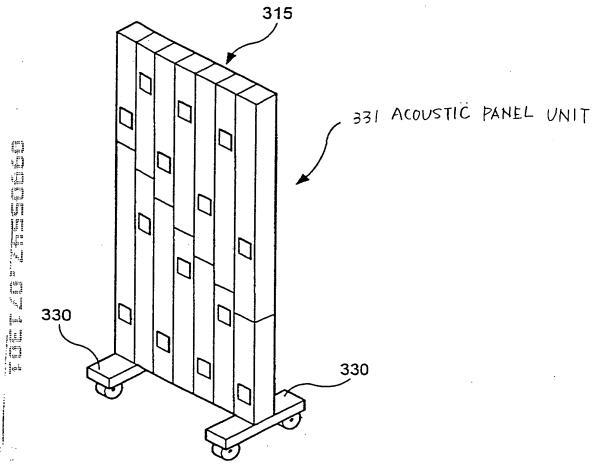
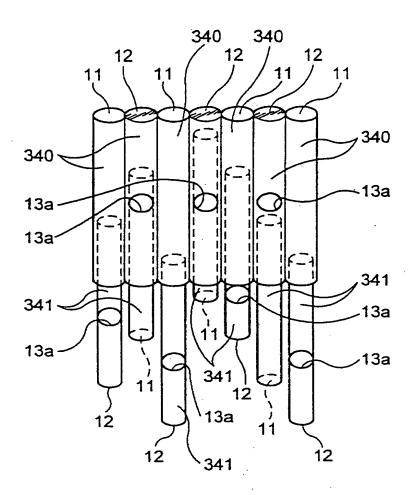


FIG. 33



## $\mathsf{FIG}.\,34$



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